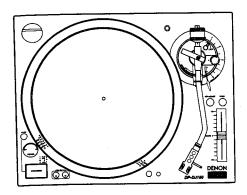
# DENON

For U.S.A., Canada & Europe model

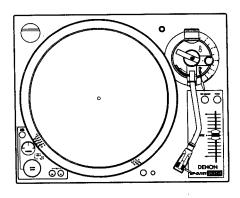
Hi-Fi Component

# SERVICE MANUAL MODEL DP-DJ150/151

# **DIRECT DRIVE MANUAL TURNTABLE SYSTEM**



DP-DJ150



**DP-DJ151** 

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Some illustrations using in this service manual are slightly different from the actual set.

# NIPPON COLUMBIA CO., LTD.

# SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

# **LEAKAGE CURRENT CHECK**

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

### **SPECIFICATIONS**

**■** Turntable

Drive method: Turning speed:

Wow/flutter: S/N ratio:

Platter:

Motor:

Direct drive

33 1/3, 45 and 78rpm 0.2% wrms or less 50dB or greater

Aluminum die-cast, 330mm diameter

Brush less DC motor

**■** Tone arm

Arm type:

Effective length: Overhang:

Arm height adjustment range:

Stylus pressure adjustment range:

Applicable cartridge mass:

Static balance, S-shaped arm pipe

234mm 15mm

Approx. 6mm

0 to 39.2mN (1scale=0.98mN) [0 to 4.0g (1scale=0.1g)]

6 to 10g

■ General

Power supply:

Power consumption:

Dimensions:

AC115/230V, 50/60Hz

15W

448 (W) × 156 (H) × 350 (D) mm

17-1/4 (W)  $\times$  6-9/64 (H)  $\times$  13-25/32 (D) in.

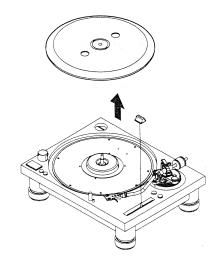
Approx. 12 kg (26 lbs 7 oz) Mass:

# DISASSEMBLY

( Follow the procedure below in reverse order when reassembling )

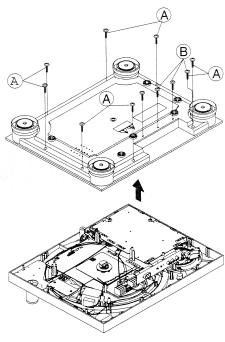
### Platter (step1)

Hooking two holes on the Platter to pull it up with thumb and medius.



# Bottom PCB (step2)

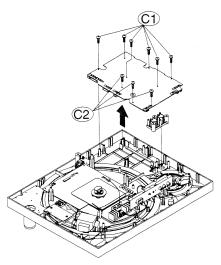
Remove 8 screws (A) and 3 screws (B) mounting the Bottom base as then detach the Button base shown in the arrow direction.



# Main PCB (step3)

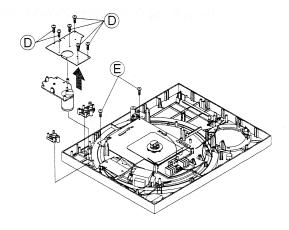
Remove 6 screws C1 and 3 screws C2 fixing the Main PCB, then detach the Main PCB as shown in the arrow direction.

NOTE: To take out the Pitch knob first before taking out Main PCB. (refer to figuare of step1)



# Velocity PCB (step4)

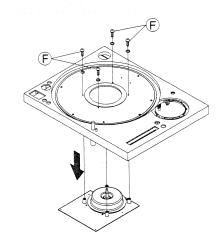
Remove 6  $\bigcirc$  screws fixing the Velocity PCB, then detach the PCB as shown in the arrow direction.



### D.D.motor ass'y (step5)

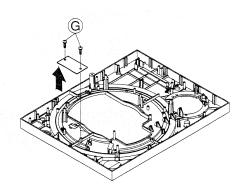
Remove 4 (F) screws 4 washers fixing the D.D.motor ass'y, then detach the D.D.motor ass'y as shown in the arrow direction.

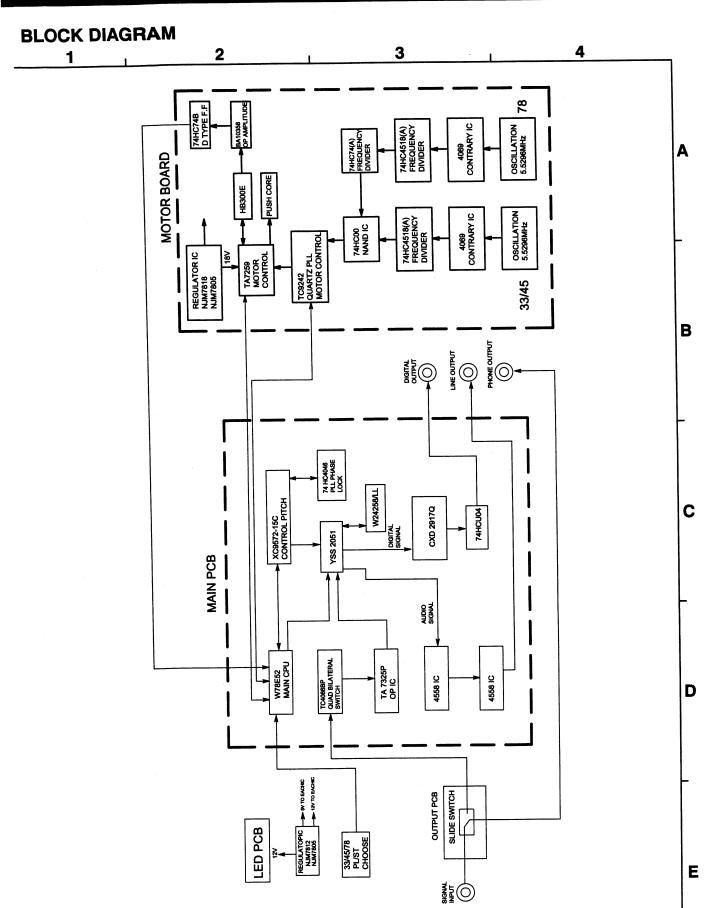
Note: The 2 © screws should be taken out before taking D.D.motor ass'y out. (refer to figure of step4)



# AC PCB ass'y (step6)

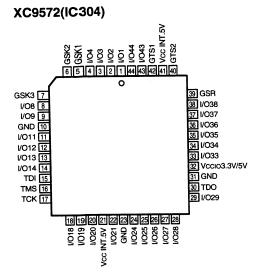
Remove 2 ⑤ screws fixing the AC PCB ass'y, then detach the AC PCB ass'y as shown in the arrow direction.

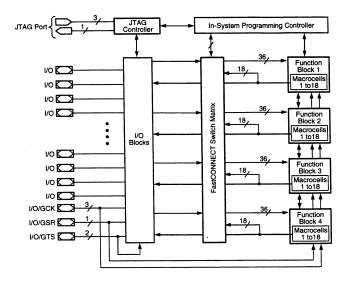




# **SEMICONDUCTORS**

### ● IC's

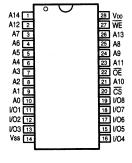




### XC9572 Terminal Function

Pin No.	Name	1/0	Function	
1	STROBE O Strobe output		Strobe output	
3	COO	0	Phase comparator feedback input 0	
4	CPI	0	Reference frequency input (TC9242)	
5	СРО	1	Reference frequency output (TC9242)	
6	CP1	ı	From reference frequency output	
7	SCK	1	Clock input	
8	DS	ı	Select enable pin	
9	SDA	1	Data input	
11	PITCH	1	Pitch on or off determination	
12	RPM78	ı	78 RPM switch	
13	RPM45		33/45 RPM switch (TC9242)	
18	CLK1	0	SCK buffer output	
19	DI1	0	SDA buffer output	
22	CO1	0	Phase comparator input1	

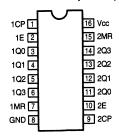
### W24258 (IC502)



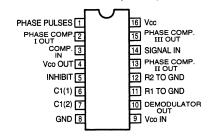
### **Terminal Function**

Name	Function			
A0 ~ A14	Address input			
I/O1 ~ I/O8	Data input/output			
ĊŚ	Chip select input			
WE	Write enable input			
ŌĒ	Output enable input			
VDD	Power supply			
Vss	GND			

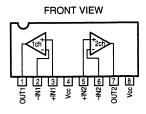
### CD74HC4518(IC106)



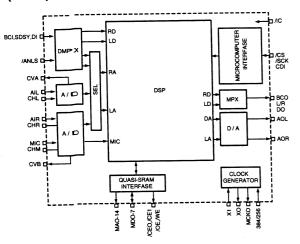
### 74HC4046A(IC302)

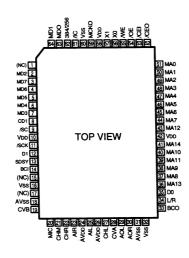


### BA10358N(IC103,110)



## YSS205B(IC501)



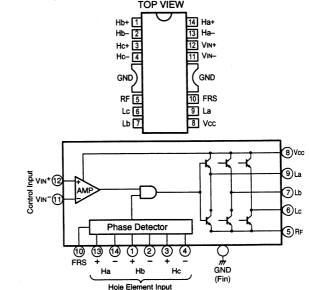


### Terminal Function (YSS205B

Pin	Symbol	1/0	Function
No.		<del>                                     </del>	(Do not make any outernal connection)
1	(NC)	1	(Do not make any external connection.)  Data terminal for external quasi-SRAM interface
2	MD2	1/0	Data terminal for external quasi-Sham interface
3_	MD7	1/0	
4	MD6	1/0	Data terminal for external quasi-SRAM interface
5	MD5	1/0	Data terminal for external quasi-SRAM interface
6	MD4	1/0	Data terminal for external quasi-SRAM interface
7	MD3	1/0	Data terminal for external quasi-SRAM interface
8	CDI	1	Serial data for microcomputer interface
9	/CS		Chip select for microcomputer interface
10	VDD	$\perp =$	+5V power supply (for digital system)
11	/SCK	1	Serial clock microcomputer interface
12	DI	1+	Serial data for digital voice input
13	SDSY	I+	L/R clock for digital voice input
14	BCI	I+	Bit clock for digital voice input
15	(NC)		(Do not make any external connection.)
16	Vss		Ground (for digital system)
17	(NC)		(Do not make any external connection.)
18	AVss	A-	Ground (for A/D, D/a system) Connect to Vss externally
19	CVB	AO	A/D center voltage of Rch, MIC channel
20	MIC	Al	Analog voice MIC channel A/D output
21	СНМ	A-	Sample/hold capacitor connecting terminal of MIC input
22	CHR	A-	Sample/hold capacitor connecting terminal of AIR input
23		Al	Analog voice Rch A/D input
24		A-	+5V Power supply (for A/D, D/A system); Connect to VDD externally
25		Al	Analog voice Lch A/D Input
26		A-	+5V Power supply (for A/D, D/A system); Connect to VDD externally
27		A-	Sample/hold capacitor connecting terminal of AIL input
28		AO	A/D center voltage of Lch
29		AO	Analog voice Lch D/A output
30		AO	Analog voice Rch D/A output
31		A-	Ground (for A/D, D/a system) Connect to Vss externally
32		1_	Ground (for digital system)
33		0	Digital voice output bit clock
34		0	Digital voice output L/R clock
3		0	Digital voice output serial data
30	+	0	External quasi-SRAM interface address terminal
3		0	External quasi-SRAM interface address terminal
3		10	External quasi-SRAM interface address terminal

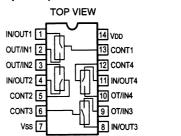
-			
Pin No.	Symbol	1/0	Function
39	MA11	0	External quasi-SRAM interface address terminal
40	MA10	0	External quasi-SRAM interface address terminal
41	MA14	0	External quasi-SRAM interface address terminal
42	VDD	_	+5V Power supply (for digital system)
43	MA12	0	External quasi-SRAM interface address terminal
44	MA7	0	External quasi-SRAM interface address terminal
45	MA6	0	External quasi-SRAM interface address terminal
46	MA5	0	External quasi-SRAM interface address terminal
47	MA4	0	External quasi-SRAM interface address terminal
48	MA3	0	External quasi-SRAM interface address terminal
49	MA2	0	External quasi-SRAM interface address terminal
50	MA1	0	External quasi-SRAM interface address terminal
51	MA0	0	External quasi-SRAM interface address terminal
52	/CE0	0	External quasi-SRAM interface chip select #0
53	/CE1	0	External quasi-SRAM interface chip select #1 (effective when 2 of them are connected.)
54	/OE	0	External quasi-SRAM interface OE terminal
55	/WE	0	External quasi-SRAM interface WE terminal
56	хо	0	X'tal oscillator connecting terminal
57	XI	1	X'tal oscillator or external clock connecting terminal
58	VDD	T —	+5V Power supply (for digital system)
59	мско	0	Master clock (XI clock) output
60	Vss	_	Ground (for digital system)
61	/IC	1	Initial clear terminal
62	384/256	l+	Master clock rate shifting ("H"=384fs, "L"=256fs)
63	MD0	I/O	External quasi-SRAM interface data terminal
64	MD1	1/0	External quasi-SRAM interface data terminal





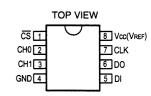
Pin No.	Symbol	Function
1	Hb+	b-phase hole amp positive input terminal
2	Hb-	b-phase hole amp negative input terminal
3	Hc+	c-phase hole amp positive input terminal
4	Hc-	c-phase hole amp negative input terminal
5	RF	Output block ground terminal
6	Lc	c-phase drive output terminal
7	Lb	b-phase drive output terminal
8	Vcc	Power supply terminal
9	La	a-phase drive output terminal
10	FRS	Forward/reverse switching terminal
11	VIN-	Control amp negative input terminal
12	VIN+	Control amp positive input terminal
13	На+	a-phase hole amp positive input terminal
.14	На-	a-phase hole amp negative input terminal
Fin	GND	Ground terminal

### TC4066BP(IC305)



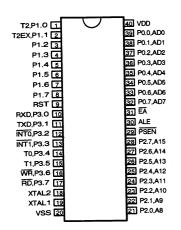
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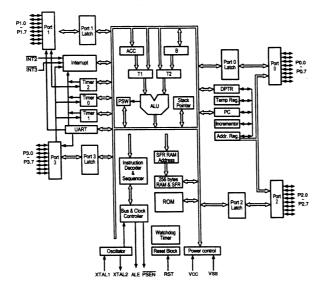
A+INPUT 3



ADC0832(IC301)

### W78E52(IC303)

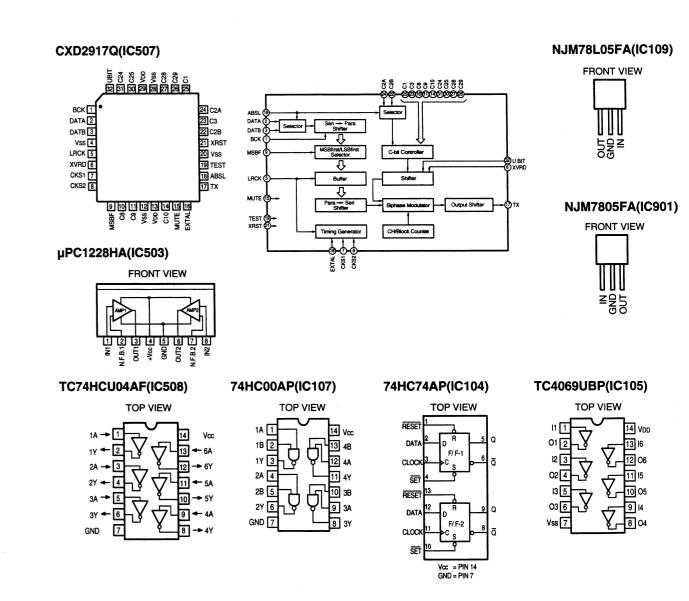




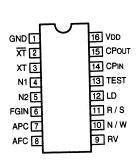
### W78F52 Terminal Function

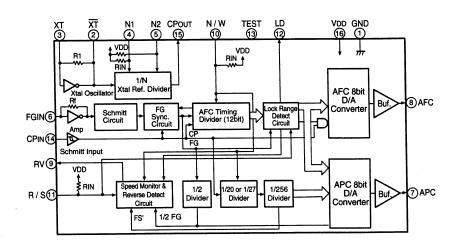
V781	E52 Termin	al Fu	nction
Pin No.	Symbol	1/0	Function
1	P1.0	1	PLAY/STOP key
2	P1.1	1	33 key
3	P1.2	1	45 key
4	P1.3	1	BRAKE key
5	P1.4	<u> </u>	NC .
6	P1.5	1	PITCH OFF key
7	P1.6		PITCH LOW (GND)
8	P1.7	1	PITCH ON key
9	RST		Reset: A high on this pin for two machine cycles while the oscillator is running resets the device
10	P3.0	_	NC
11	P3.1	0	PITCH ON LED
12	P3.2	0	PITCH OFF LED
13	P3.3	0	Drive1: Drive assist
14	P3.4	1	FG: FG pulse input
15	P3.5	1	Remote input
16	P3.6	1	LD: Lock detecting terminal (TC9242)
17	P3.7		AFC input (TC9242)
18	XTAL2		Crystal2: This is the crystal oscillator output. It is the inversion of XTAL1
19	XTAL1	T	Crystal1: This is the crystal oscillator input. This pin may be driven by an external clock
20	Vss		Ground: Ground potential
21	P2.0	1	ROT: Determination of forward or reverse rotate (L: Reverse rotate, H: Forward rotate)
22	P2.1	0	FRS: Selection of forward or reverse rotate (L: Reverse rotate, H: Forward rotate)
23	P2.2	0	P/S: Motor play/stop signal (TC9242)
24	P2.3	0	33/45: Speed switching (L: 33 1/3RPM, H=45RPM (78RPM=L) or 78RPM (78RPM=H)
25	P2.4	0	Drive 2: Drive assist
26	P2.5	0	78RPM: Speed switching (L: 33 1/3RPM (33/45=L) or 45RPM (33/45=H); H=78RPM (33/45=H))
27	P2.6	I	DO: Data output in
28	P2.7	0	DI: Data input out
29	PSEN		Program store enable: PSEN enables the external ROM data onto the Port 0 address/data bus during fetch and MOVC operations. When internal ROM access is performed, no PSEN strobe signal outputs from this pin.
30	ALE		Address latch enable: ALE is used to enable the address latch that separates the address from the data on Port0.
31	ĒĀ		External access enable: This pin forces the processor to execute out of external ROM. It should be kept high to access internal ROM. The ROM address and data will not be presented on the bus if $\overline{\sf EA}$ pin is high and the program counter is within on-chip ROM area.

Pin No.	Symbol	VO	Function		
32	P0.7	0	CLK: Clock output		
33	P0.6	_	NC .		
34	P0.5	0	CS: ADC0832 Chip select		
35	P0.4	0	DS: XC9572 Chip select		
36	P0.3	0	33 LED		
37	P0.2	0	45 LED		
38	P0.1	0	Brake LED		
39	P0.0	0	PB: H=Pitch ON, L=Pitch OFF (XC9572)		
40	VDD		Power supply: Supply voltage for operation.		



### TC9242P(IC101)





### **Terminal Function**

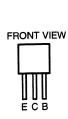
Pin No.	Symbol	Function
1	GND	Power supply (5V ±0.5V) terminal
2	Хт	X'tal oscillator connection terminal
3	Хт	X'tal oscillator connection terminal
4	N <sub>1</sub>	Ref. frequency divide (1/3, 1/4, 1/5) switching terminal
5	N2	Ref. frequency divide (1/3, 1/4, 1/5) switching terminal
6	FGIN	Motor revolution pulse input terminal
7	APC	Motor phase control system output terminal, 8bit P-V converter
8	AFC	Motor speed control system output terminal, 8bit F-V converter
9	RV	Motor reverse signal output terminal
10	N/W	Lock range switching terminal, H or open: 1/20, L: 1/27
11	R/S	Motor run/stop signal input terminal, H or open: Stop, L: Run
12	LD	Motor revolution lock monitor terminal, H: Locked, L: Out of lock
13	TEST	Output for internal test, leave it open normally
14	CPIN	Connects with CPout normally, inputs from external osc when fine adj.
15	СРоит	Output of X'tal ref. divider, connects with CPIN normally
16	VDD	Power supply (5V ±0.5V) terminal

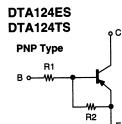
# ● Hole Element HW300B(HE101~103)



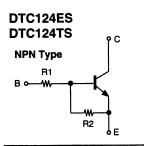
### • TRANSISTORS







	R1	R2
DTA124ES	22kohm/Ω	22kohm/Ω
DTA124TS	22kohm/Ω	



	R1	R2
DTC124ES	22kohm/Ω	22kohm/Ω
DTC124TS	22kohm/Ω	

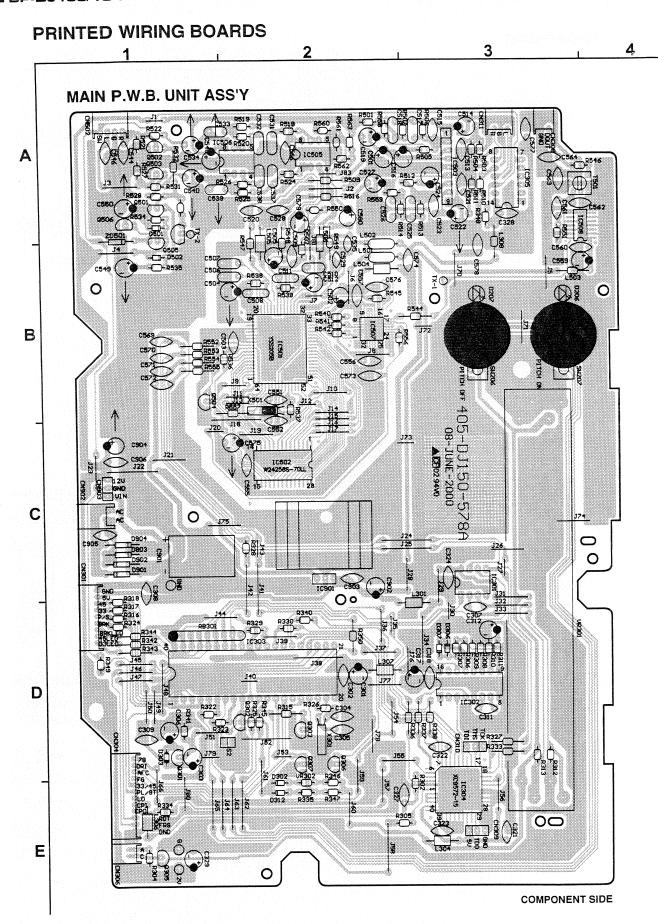
### • DIODES

1N4002 1SS132



MTZ8.2B





A

B

C

D

1 2 3 4

# D.D. MOTOR / IC & HEAT SINK P.W.B. UNIT ASS'Y

### D.D. MOTOR P.W.B.

IC & HEAT SINK P.W.B.

1001 3 5NO 1 CN903 1 OUT 3 6ND 3 IN 1C108 CNI CN103 HE103 1C107 1109 ▲ CF 02 94V0 405-DJ100-564 L110

COMPONENT SIDE

2 **VELOCITY MODULATE P.W.B. UNIT ASS'Y** Α CN201 SW204 BREAK В SHOI C 0 \$1201 \$1201 P/S 0201 405-DJ100-562 COMPONENT SIDE **OUTPUT P.W.B. UNIT ASS'Y** D L JK501 <sup>J7</sup> 405-0J150-579 890309 ▲CF 02 94V0 ₩311

COMPONENT SIDE

Α

В

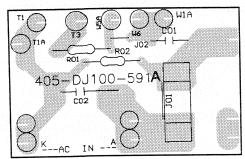
C

2

3

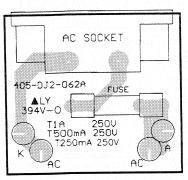
4

## AC P.W.B. UNIT ASS'Y



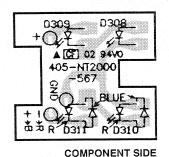
COMPONENT SIDE

AC JACK P.W.B. UNIT ASS'Y



COMPONENT SIDE

### LED P.W.B. UNIT ASS'Y



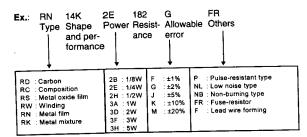
D

# NOTE FOR PARTS LIST

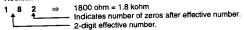
- Part indicated with the mark "⊙" are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
- Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not illustrated in the exploded view.
- Not including Carbon Film ±5%, 1/4W Type in the P.W.Board parts list. (Refer to the Schematic Diagram for those parts.)

Parts marked with this symbol  $\Lambda$  have critical characteristics. Use ONLY replacement parts recommended by the manufacturer.

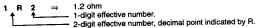
### Resistors



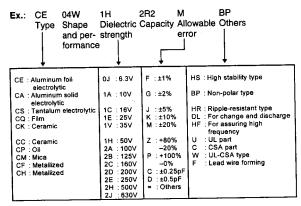
#### \* Resistance



Units: ohm



### Capacitors



### \* Capacity (electrolyte only)

• Units: μF.

### \* Capacity (except electrolyte)

2 2 ⇒ 2200pF=0.0022μF
(More than 2)—indicates number of zeros after effective number.
2-digit effective number.

• Units: μF.

• Units: pF.

• When the dielectric strength is indicated in AC, "AC" is included after the dieelectric strength value.

# PARTS LIST OF P.W.B. UNIT

# MAIN P.W.B. UNIT ASS'Y

Note: The symbols in the column "Remarks" indicate the following destinations.

E2: Europe model, E3: U.S.A. & Canada model, EK: U.K. model

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks_
SEMICON	DUCTORS G	ROUP		C311		Ceramic 1000pF/50V	
IC301	958 0040 109	IC ADC0832		C312		Electrolytic 10μF/25V	
IC302	958 0040 206	IC 74HC4046A		C317		Electrolytic 100μF/10V	
IC303	958 0040 905	IC W78E52DIP		C318		Ceramic 0.1µF/50V	
IC304	958 0041 001	IC XC9572-15-PC44		C321		Ceramic 0.1µF/50V	
IC305	262 0395 009	IC TC4066BP		C322		Ceramic 15pF/50V	
10000				C323		Ceramic 0.1µF/25V	
IC501	958 0048 606	IC YSS205B		C324		Ceramic 0.1µF/50V	
IC502	958 0048 703	IC W24258S-70LL		C327		Ceramic 47pF/50V	
IC502	958 0049 702	IC TA7325P	•	C328		Ceramic 0.1µF/50V	
IC505,506	263 0081 002	IC NJM4558D		C329		Electrolytic 100µF/16V	
IC503,500	958 0048 907	IC CXD2917Q					
IC507	958 0048 800	IC TC74HCU04AFN		C501		Electrolytic 100µF/16V	
10506	950 0040 000	10 10/4/1000 // 11		C502		Electrolytic 100μF/10V	
10001	958 0040 303	IC NJM7805FA		C503		Ceramic 0.1µF/50V	
IC901	956 0040 303	10 1401417 0001 A		C504		Electrolytic 100µF/10V	
0004	000 0003 003	Transistor DTA124ES		C505		Electrolytic 220µF/6.3V	ļ
Q301	269 0063 002 269 0075 906	Transistor DTC124TS		C506~508		Polyester 0.0033µF/100V	
Q302		Transistor 2SC1740R (R)		C509		Ceramic 0.1µF/50V	
Q303	273 0303 907	Transistor 2SC1815(GR)		C510,511		Polyester 0.0033µF/100V	
Q305	273 0198 921	Transistor DTA124ES		C512		Electrolytic 100µF/10V	
Q306,307	269 0063 002	Transision DTA124E3		C513		Ceramic 100pF/50V	
		Transister DTC104TP		C514		Electrolytic 4.7µF/50V	
Q501	269 0075 906			C515		Ceramic 100pF/50V	
Q502,503	274 0131 004			C516		Electrolytic 100µF/16V	
Q504	269 0075 906			C517		Myler 0.01µF/50V	
Q505,506	269 0063 002	Transistor DTA124ES		C518		Myler 0.0027µF/50V	
l l		. 55 (0555)	4 (DITOLLON)	C519		Electrolytic 4.7µF/50V	
D206	958 0041 807	1 '	for (PITCH ON)	C520		Ceramic 1000pF/50V	
D207	958 0041 700	LED (RED)	for (PITCH OFF)	C521		Ceramic 100pF/50V	
l l				C522		Electrolytic 4.7µF/50V	
D302,303	958 0042 806		_	C523		Ceramic 100pF/50V	
D306,307	958 0042 806		ĺ	C524		Electrolytic 22µF/16V	
D312	958 0042 806	Diode 1SS132		C525		Myler 0.01µF/50V	
				C526		Myler 0.0027µF/50V	
D501,502	958 0042 806			C527		Electrolytic 4.7µF/50V	
D901~904	958 0018 607	Diode 1N4002		C528		Ceramic 1000pF/50V	
				C529		Ceramic 33pF/50V	
ZD501	958 0049 003	Zener diode MTZ8.2B		C529		Ceramic 220pF/50V	
ļ	1			C531		Myler 2200pF/50V	
RESIST	ORS GROUP		.1	C532		Myler 0.0015µF/50V	
RB301	958 0041 904		3	C533		Polyester 0.022µF/50V	
HDOUT	330 0041 00			C534		Electrolytic 10µF/25V	
VR302	958 0042 000	Vsriable resistor 10 kohm		C535		Ceramic 33pF/50V	
V11302	350 0042 000	7 0,100,101,010,101		C535		Ceramic 220pF/50V	1
			<u> </u>	C537		Myler 2200pF/50V	
CAPAC	ITORS GROU	JP		C537		Myler 0.0015µF/50V	
C301		Electrolytic 100μF/10V		C539		Polyester 0.022µF/50V	
C302		Ceramic 0.1μF/50V		C539 C540		Electrolytic 10μF/25V	
C303		Electrolytic 10µF/50V		C540 C544		Ceramic 470pF/50V	
C304,305	;	Ceramic 33pF/50V		C544 C546		Ceramic 470pF/50V	
C306		Electrolytic 1µF/50V		C548,549		Electrolytic 100µF/16V	
C307~30	9	Ceramic 0.1µF/50V		C546,549		LIGOROUPIIC TOOMESTON	
	_1		<u></u>				

Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks	Q't
550	E	lectrolytic 10µF/25V		11	T501	958 0020 705	Coil		1
551,552	l c	Ceramic 20pF/50V		- 11					
D553	c	Chip Ceramic 1000pF/50V		- 11	X301	958 0015 707	Crystal 12MHz		1
C555	1	Ceramic 0.1µF/25V		-					
C556,557	i	Ceramic 0.1µF/50V		- } }	X501	958 0015 600	Crystal 16.9344MHz		1
C559	Į.	Electrolytic 100µF/16V		- { }					
C560,561	I .	Ceramic 0.1µF/50V		-		958 0050 704	2P socket	for S2	1
C562		Ceramic 68pF/50V		Ш		958 0013 806	40P IC jack	for IC303	1
C563		Ceramic 0.1µF/50V		- []		958 0042 301	Heat sink	-	1
C564		Ceramic 47pF/50V		H		958 0042 408	LED holder	for D206,207	2
C566		Ceramic 0.1µF/50V		- 11		958 0042 505	Nut		1
C569~573		Ceramic 1000pF/50V		Ħ		958 0042 602	Screw 3X9		1
1	i i	Ceramic 0.1µF/50V		- 11		958 0042 709	VR cushion		1
C574		Electrolytic 100µF/10V							
C575	i	Ceramic 15pF/50V		- []					
C576	i i	Ceramic 0.1µF/50V		- 11					
C577,578		Electrolytic 1µF/50V		- 11					
C579,580		Electrolytic TµF/50V		- 11					
[		El		-					
C901	I	Electrolytic 1000µF/25V		- 11					
C902		Electrolytic 100µF/10V		11					
C903	I	Ceramic 0.1µF/50V		- 11					
C904		Electrolytic 100µF/16V		Ш		ļ			
C905,906	1	Ceramic 0.1µF/50V							1
	• = TO OPOU			2'ty					
	ARTS GROUI	9P socket	<del>,                                    </del>	7					
CN301	000 00			;		ļ			
CN304	958 0041 302	12P socket		; II					
CN308		2P socket		2				-	1
CN309,310	-	3P pin		- 11			!		ļ
CN311	958 0050 801	3P socket							
CN502	958 0050 607	4P socket		1					
CN606	958 0041 409	2P socket		1					
CN902	958 0041 603	2P connector		1					١
CN903	1	2P connector wire		1					
•						į			
GND		Lead wire		1					
L301	958 0016 900	Bead core		1					
L304	958 0016 900			1					
L306,307	958 0016 900	ł .		2					
	958 0017 006			1					
L308	1			,					
			i	3					
L308 L501~503	958 0017 006	i				i i			
	958 0017 006 958 0016 900	l l		3					
L501~503	1	Bead core		3					

Remarks

# D.D. MOTOR P.W.B . UNIT ASS'Y

Def No	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remark	s
Ref. No.	DUCTORS GI			C147,148		Ceramic 68pF/50V		
	Control of the Contro	IC TC9242P		C150		Ceramic 22pF/50V		
		IC TA7259P		C151		Ceramic 68pF/50V		
IC102		IC BA10358N		C152		Ceramic 0.1µF/50V		
IC103	755 336 366	IC 74HC74AP		C154		Ceramic 33pF/50V		
IC104	958 0043 407	IC TC4069UBP		C155,156		Ceramic 0.1µF/50V		
IC105	958 0043 009	IC CD74HC4518						
IC106	958 0043 203	IC 74HC00AP						
IC107	958 0043 504	3P-3P connector wire Ass'y	to CN103					
IC108	958 0044 406	IC NJM78L05A	10 011100	OTUED E	ADTC CDOU	D		Q'ty
IC109	958 0016 308	IC BA10358N		1	ARTS GROU	- Control Control Control		1
IC110	958 0043 708	IC BA1033014		B107	958 0016 900	Bead core		
115101 100	050 0040 601	IC HW-300BE		01404	050 0044 500	OD connector		1
HE101~103	958 0043 601			CN101	958 0044 503	2P connector 12P connector wire		1
0.101	273 0303 907	Transistor 2SC1740S(R)		CN102	958 0044 309	12F CONNECTOR WIFE		
Q101	269 0075 906	Transistor DTC124TS		1404	050 0017 006	Inductor 10µH		1
Q104	269 0075 906	Transistor DTA124TS		L104	958 0017 006 958 0016 900			4
Q105	269 0092 903	Translater 5 Trans		L105~108				1
D404 404	958 0018 607	Diode 1N4002		L109	958 0014 902	Cole		
D101~104 D106~111	958 0018 607	Diode 1N4002		V101	958 0044 008	Crystal 5.5296MHz		1
ווו~סטוע	930 0010 007	Disas		X101 X102	958 0044 000			1
				1 102	930 0043 302	Orystal units 11.001000ttil		
RESIST	ORS GROUP					Ground wire		1
R115	958 0046 909				958 0043 805		for IC102	1
R126	958 0046 802	Carbon film 200 ohm 1W			958 0044 707	젊다 깨끗한 살았다. 하는 그 하는 이 모였다.		2
					330 0044 707	001011 07.0 (2)		
CARACI	TORS GROU	P						
		Electrolytic 4.7μF/50V						
C101		Electrolytic 10µF/25V						
C102		Ceramic 0.047µF/50V						
C103 C104		Electrolytic 1µF/50V						
C104 C108		Ceramic 150pF/50V						
C100 C110,111		Ceramic 0.01µF/50V						
C110,111		Ceramic 0.047µF/50V						
C112		Ceramic 0.01µF/50V						
C114~11	6	Electrolytic 100µF/25V						
C117	958 0050 10	Electrolytic 1000μF/50V						
C117	254 4256 08							
C119,120		Ceramic 30pF/50V						
C121~12		Ceramic 0.1µF/50V						
C121~12		Electrolytic 100μF/25V						
C124,123		Electrolytic 100µF/10V						
C120	254 3056 0							
C127	, 555, 6	Ceramic 0.015µF/50V						
C128		Electrolytic 100µF/25V						
C129	1	Ceramic 18pF/50V						
C130,13		Ceramic 0.1µF/25V						
C132~13		Ceramic 0.1µF/50V						
C137,13		Electrolytic 100μF/10V						
C139	43	Ceramic 0.1µF/50V						
C140~1		Ceramic 56pF/50V						
C145		Ceramic 47pF/50V						
0170								diam'r.

### IC & HEATSINK P.W.B. UNIT ASS'Y

### AC JACK P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Part Name Remarks		
SEMICON	DUCTORS G	ROUP			
IC108	263 1044 006	IC NJM7818FA			
IC902	263 0516 001	IC NJM7812FA			
OTHER F	PARTS GROU	P		Q'ty	
CN103	958 0044 600	3P socket		1	
CN903	958 0044 600	3P socket		1	
		Heat sink		1	
		Screw		2	

Ref. No.	Part No.	Part Name	Remarks	Q'ty
OTHER F	ARTS GROU	P		
Δ	958 0045 201	AC jack		1
	958 0045 405	Fuse clips		2
Δ	958 0046 404	Fuse 1A250V	for E3	1
Δ	958 0045 502	Fuse 1A250V	for E2/EK	1
	958 0045 609	Fuse cover		1

# LED P.W.B. UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remark	s
SEMICON	NDUCTORS G	ROUP		
D308~311	958 0045 706	LED (RED)	for (1)	
OTHER F	ARTS GROU	IP		Q'ty
	958 0042 408	LED holder	for D308~311	4

Part Name

Ceramic 0.1µF/50V

# VELOCITY MODULATE P.W.B. UNIT ASS'Y

Het. No. Part No.		Part Name	nemair		
SEMICON	DUCTORS G	ROUP			
D201,202	958 0045 104	LED (YELLOW)	for (45), (33)		
D204	958 0045 104	LED (YELLOW)	for (BRAKE)		
OTHER P	ARTS GROU	P		Q'ty	
CN201	958 0045 007	9P connector wire		1	
∆ SW01	958 0044 804	Micro switch	POWER	1	
SW201~204	958 0044 901	Tact switch		4	

# OUTPUT P.W.B. UNIT ASS'Y

Ref. No. Part No.

CAPACITORS GROUP

^-	Although the fill	0	
C5		Ceramic 0.1μF/50V	
C545		Ceramic 470pF/50V	
C547		Ceramic 470pF/50V	
OTHER	PARTS GROU	P	
CN308A	958 0045 900	2P connector wire	
JK501	958 0046 006	2P pin jack	
JK502	958 0053 400	1P pin jack	
SW501	958 0049 304	Slide switch	-
W308	958 0049 508	2P Wire	
W311	958 0049 605	3P Wire	
W502	958 0049 401	4P connector wire	
	958 0045 803	Bracket (L)	
	958 0046 103	Screw 3×5	

### AC DWR LINIT ASS'Y

AC P.W.E	3. UNIT A	.55 Y					
Ref. No.	Part No.	Part Name	Remarks	3			
RESISTO	RS GROUP				OTHER I	PARTS GROU	P
R02		Carbon film 1 Mohm 1/2W			CN308A	958 0045 900	2P connector wire
					JK501	958 0046 006	2P pin jack
CAPACIT	TORS GROUP	)			JK502	958 0053 400	1P pin jack
<b>∆</b> C01	958 0010 003	Ceramic 4700pF/400V					
<b>∆</b> C02	958 0045 308	Metalized 0.1µF/250V			SW501	958 0049 304	Slide switch
OTHER	PARTS GROU	IP		Q'ty	W308	958 0049 508	2P Wire
W1A	T =	Lead wire (red)		1	W311	958 0049 605	3P Wire
W2A	-	Lead wire (orange)		1	W502	958 0049 401	4P connector wire
		Lead wire (red)	to AC socket Vo	1			
		Lead wire	to AC socket GND	1		958 0045 803	Bracket (L)
		Cable tie		2		958 0046 103	Screw 3×5
		Lead wire (yellow)		1			
		, ,					

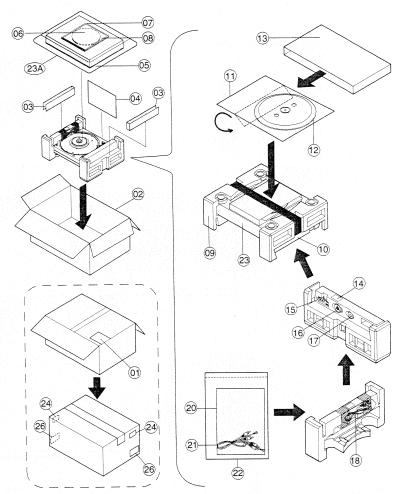
# **EXPLODED VIEW** 2 WARNING: Ports marked with this symbol have characteristics. Use ONLY replacement parts recommended manufacturer. A (12) -86E3) <u>(</u>1 B -(86E2) <u>^</u>• -86EK) / C D

PARTS LIST OF EXPLODED VIEW

Note: The symbols in the column "Remarks" indicate the following destinations. E2: Europe model, E3: U.S.A. & Canada model, EK: U.K. model

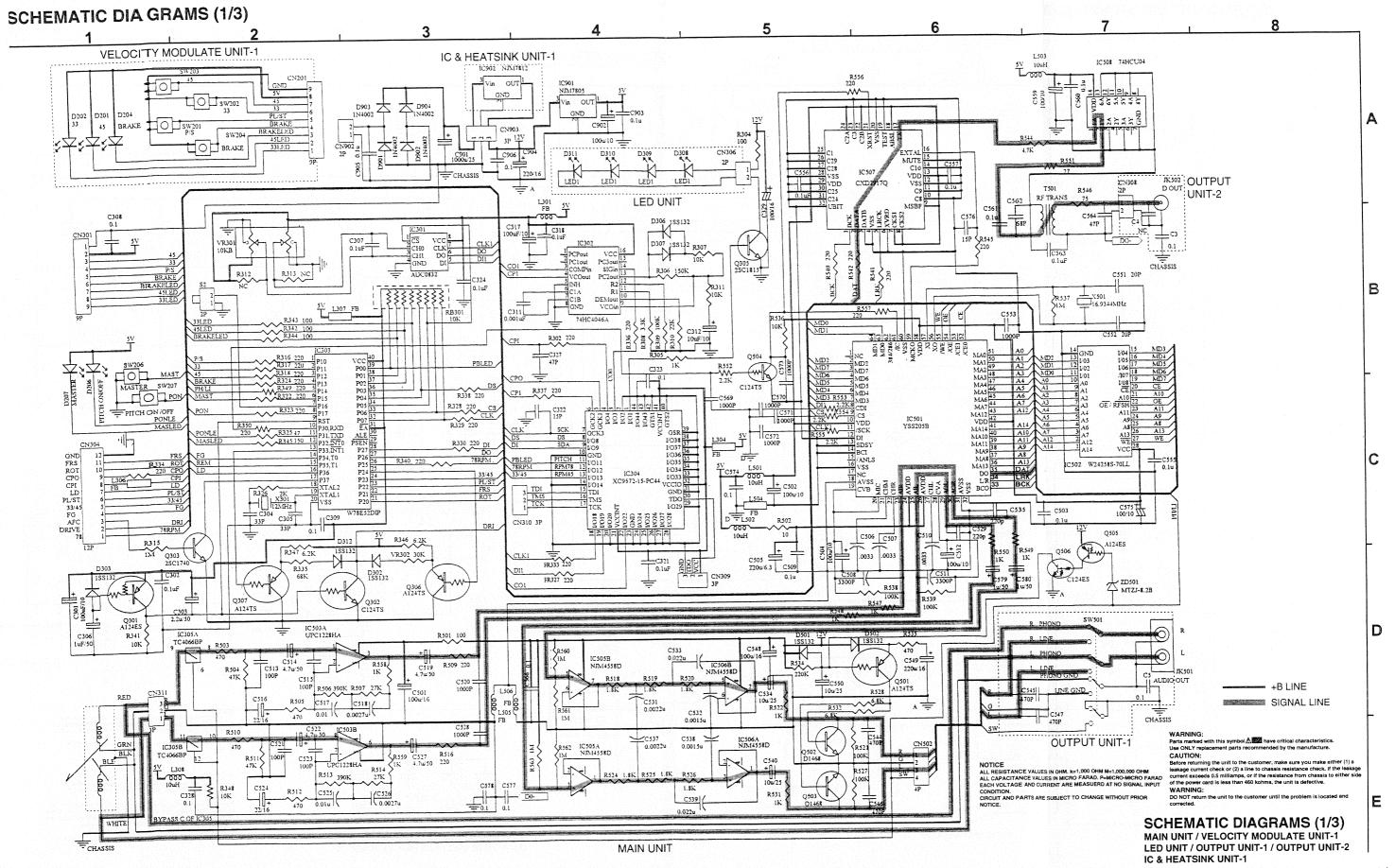
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q
15	958 0031 419	AC P.W.B. Ass'y		1	Δ 54	958 0047 403	Power trans.	T1	
41		LED P.W.B. Ass'y		1	55	958 0035 402	Cushion rubber	for Power trans.	
48	958 0047 306	Velocity modulate P.W.B. Ass'y		1	56	958 0035 509	Transformer leaf spring		
58	958 0030 902	D.D. motor P.W.B. Ass'y		1	59	958 0035 800	Clamper		
61		AC jack P.W.B. Ass'y	for E3	1	62	958 0036 100	Output fixed panel		
	at the termination of the first first and the		for E2,EK						
61		AC jack P.W.B. Ass'y	101 E2,EN	1 1	67	958 0036 605	Ground wire		
63	958 0049 207	Output P.W.B. Ass'y		1	68	958 0047 607	Shielding spring		
65	958 0036 401	IC & heat sink P.W.B. Ass'y		1	69	958 0036 809	Cushion sheet		
73	958 0047 704	Main P.W.B. Ass'y		1	71	958 0037 002	SERVICE THE RESERVE OF THE PROPERTY OF THE PRO		
					72	958 0037 109	Up/down fixed Ass'y		
1	958 0047 005	Chassis	for DP-DJ150	1	<b>△</b> 74	958 0037 303	Slide switch	Personal policy in the control of th	
	958 0052 906	Chassis	for DP-DJ151	1	75	958 0037 400	EMI core		
2	958 0030 106	Bottom cover		1	76	958 0037 507	Ground wire (L=80)		
3	958 0030 203	Dust cover	Ref. No. 3,4 Ass'y	1	77	958 0037 604	Bottom plate (t=2)		
4		Dust cover plate		1	79	958 0037 808	Foot fixed plate		
5	958 0030 313	Motor fixed plate	for DP-DJ150	1	80	958 0037 905	Rubber foot (black)	Ref. No. 80,81,	
5	The state of the base of the base	Motor fixed plate	for DP-DJ151	1		300 0007 300	Trabber root (black)	82,83,84 Ass'y	
6			The state of the s	1	81		Foot spring	02,00,017.00	
		Aluminium platter	Ref. No. 6,93 Ass'y	1.	82		Cushion for foot spring (black)		
7	958 0030 517			1	11			1 to	1
8		Decorations plate		1	83		Plastic foot		
9		Speed push button	for DP-DJ150	1	. 84		Rubber pad	_	
9	958 0052 605	Speed push button	for DP-DJ151	1	<u> </u>	958 0038 111	AC cord	for E3	1
10	958 0030 805	Counter weight		1	⚠ 86E2	958 0038 124	TORRESONNE MONTH, A REPORTED AND	for E2	
- 11	958 0030 902	Tone arm Ass'y		1	⚠ 86EK	958 0038 137	AC cord	for EK	
11-1	958 0031 008	Headshell Ass'y	for DP-DJ150	1	87	958 0047 801	2P pin plug cord		
11-1	958 0053 109	Headshell Ass'y	for DP-DJ151	1	90	958 0038 506	Fuse label		
12	958 0031 105			4	91	958 0047 908	Rating label	for DP-DJ150 E3	
13	958 0031 202			1	91	958 0047 911	Rating label	for DP-DJ150 E2	
14				1	91	958 0047 924		for DP-DJ150 EK	
		45 rpm adaptor		1	91	958 0053 222	Rating label	for DP-DJ151 E3	-
16	958 0031 503			1	91	958 0053 222		for DP-DJ151 E2	
17		Spring washer (black)		4		. Produce a decision of the state of the sta			-
20		Spot light cover		1	91	958 0053 219	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	for DP-DJ151 EK	
21	958 0032 007	Spot light (DC12V 75mA)	LP02	1	92	958 0038 700			1
22	958 0032 104	Spot light rubber base		1	93	958 0047 102	1 to the state of	for E3	
23	958 0032 201	Spot light button spring		1	94	958 0038 807	Band holder	1	
24	958 0032 308	Cushion		1	95		PVC sheet		
25	958 0032 405	Switch fixing plate		1	96		Canoe rivet		
26	958 0032 502	Spot light spring (black)		2	97	958 0047 209	WASHER		
28	958 0032 706			1	98	958 0051 800	Rubber sheet(A)		
29	958 0032 803	Note that the second of the second of	SW03	1	99	958 0051 907			1
			34403		100	000 0001 001	Plate(A)		
31		Spot light button		1	101	958 0053 303			
32	958 0033 103	1		1	101	956 0055 505	riale(D)		
34		Mute cushion (black)		2					
35	958 0033 404			1	SCREW				
36	958 0033 501	Washer		1		T	To	1	4
38	958 0033 705	Power knob and shaft Ass'y	for DP-DJ150	1	18	TRACE AND SECURE OF A SEC			
38	958 0051 402	Power knob and shaft Ass'y	for DP-DJ151	1	19			-	
39	958 0033 802	Spotlight holder		1	27	958 0032 609	Screw (CAP)		
40		Transparent sheet		1	30	958 0032 900	Screw 2×8		
42		Start/stop knob	for DP-DJ150	1	33	958 0033 220	Nut		
42		Start/stop knob	for DP-DJ151	1	37	958 0033 608	Screw 3×16		
	958 0031 608	The second of th			49		Screw 2.6×8 (P)		
43			for DP-DJ150	1	57	958 0035 606			
43			for DP-DJ151	1	60				
44	958 0034 306			1	64		The second of th		
45	958 0034 403		A. A. I	1	11	The state of the state of the			
46	958 0034 500	Tuning shaft (POWER)		1	66		1.5		
47		7 3 E-ring washer		3	70		1		
50	The state of the s	Screw		2	78				
51		Pitch ON/OFF knob		1	85	958 0038 001	Screw 3×20		
52				1	88	958 0038 302	Screw 3×8 (B)	-	
		The state of the s		1	89	958 0038 409	Screw 3×12 -B		
53									

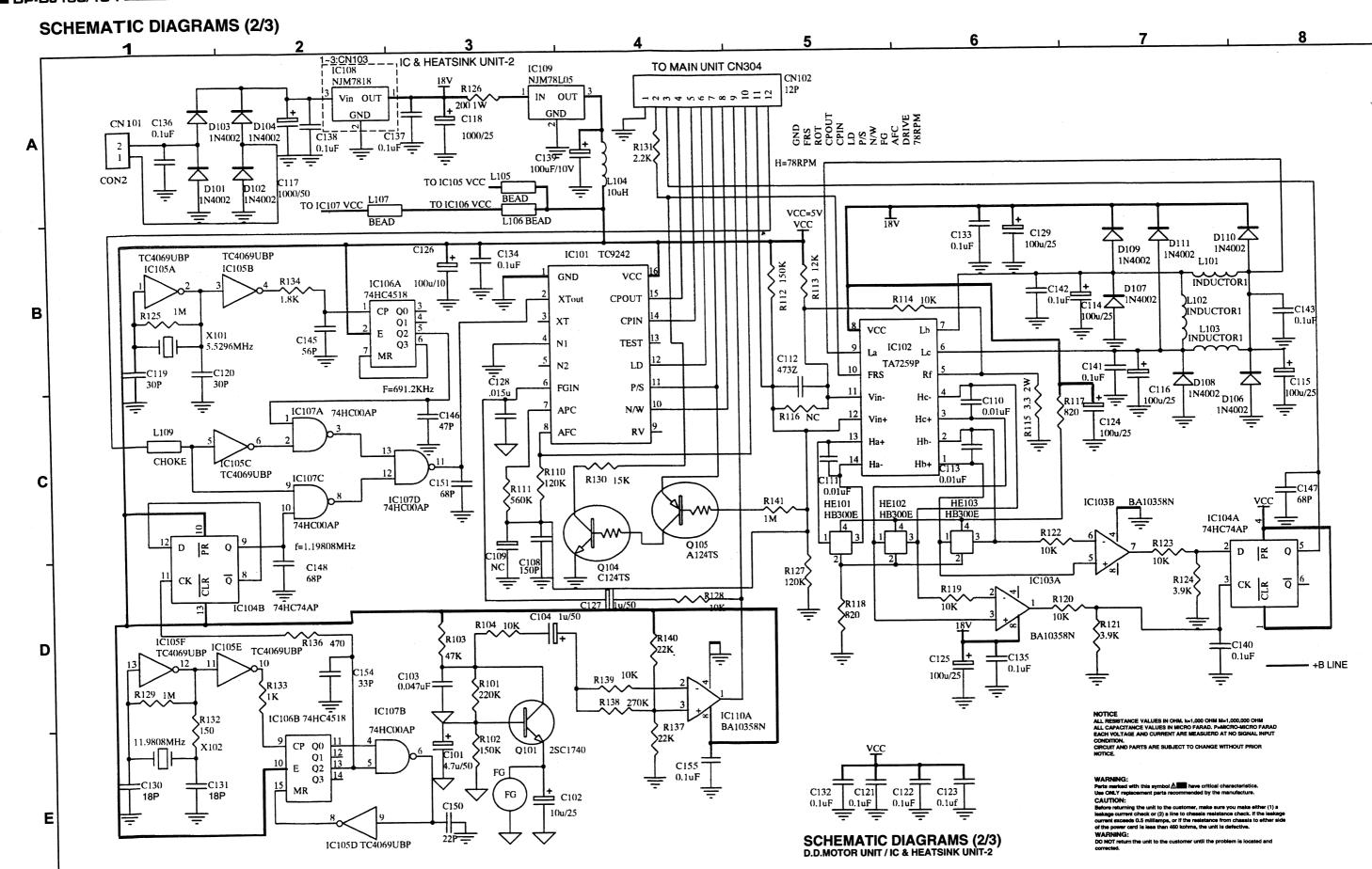
# **PACKING VIEW**



# PARTS LIST OF PACKING &ACCESSORIES Note: The symbols in the column "Remarks" indicate the following destinations. E2: Europe model, E3: U.S.A. & Canada model, EK: U.K. model

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref.	No.	Part No.	Part Name	Remarks	Q'ty
1	515 0692 101	DEL warranty com.	for E3	1	Δ	18	958 0038 124	AC cord	for E2	1
2	958 0048 509	Carton case	for DP-DJ150	1	Δ	18	958 0038 137	AC cord	for EK	1
2	958 0052 809	Carton case	for DP-DJ151	1		20	958 0048 004	Instruction manual	for DP-DJ150 E3,E2,EK	1
3	958 0046 705	Slip sheet		2		20	958 0048 017	Instruction manual	for DP-DJ150 E2	1
4		Envelope Ass'y		1		20	958 0050 908	Instruction manual	for DP-DJ151 E3,E2,EK	. 1
5	958 0030 203			1		20	958 0050 911	Instruction manual	for DP-DJ151 E2	1
6	958 0030 517			1		21	958 0047 801	2P pin plug cord		1
7	958 0046 608			1		22	958 0039 505	Poly bag	for Instruction manual	-
. 8	958 0039 204		for Slip mat	1		23	958 0039 521	Poly bag	for Set	
9	958 0039 301			1		23A	958 0039 534	Poly bag	for Dust cover	
10	958 0039 408			1		24		UPC label	for DP-DJ150 E3	
11	958 0039 518		for Turntable	1		24		E2 POS label	for DP-DJ150 E2	:
12	958 0030 407			1		24		EK POS label	for DP-DJ150 EK	1
13	958 0046 501	Folder	for Turntable	1		24		UPC label	for DP-DJ151 E3	.
14	958 0024 109	Appendage label		1		24		E2 POS label	for DP-DJ151 E2	:
15	958 0031 008		for DP-DJ150	1		24		EK POS label	for DP-DJ151 EK	:
15	958 0053 109		for DP-DJ151	1		26		Control card	for E3	
16	958 0031 309			1		26		Control card	for E2	
17	958 0030 805			1		26		Control card	for EK	
<u>∧</u> 18			for E3	1						





# SCHEMATIC DIAGRAMS (3/3) 3 2 MICRO SW LAMP 12V 75mA Before returning the unit to the customer, make sure you make either (1) leakage or the customer of 23 a lime to classis resistance check. If the leak current excered to 5 milliamps, at if the resistance from chassis to either of the power card is less than 460 kohms, the unit is defective. WARNING: WARNING: The standard with this symbol △ ™ have critical characteristic Use ONLY replacement parts recommended by the manufacture CAUTION: 12V SW03 A AUDIO OUT LCH MAIN PCB FILE:DPDJ150.SCH MOTORO PCB FILE DPD1150M0.SCH OUTPUT UNIT-3 — PHONE — RCH L(MED) (WI) B SW(PHONE OR LINE) NOTICE ALL HESISTANCE VALUES IN OHM, k=1,000 OHM M=1,000,000 OHMM ALL CAPACITANCE VALUES IN MICHO F. FARAD. P=MICHO-MICHO F. FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION. CONDITION. OFFICIAL AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. TO MOTORO PCB CN101 TO MAIN PCB CN902 GRN Ξ TONEARM POWER SELECT SW BLK C CARTRIDGE TURNTABLE MODULATE UNIT-2 VELOCITY D 0.1uF/250V X2 AC UNIT AC JACK UNIT E AC INLET SIGNAL LINE SCHEMATIC DIAGRAMS (3/3) AC UNIT / VELOCITY MODULATE UNIT-2 OUTPUT UNIT-3 / AC JACK UNIT